

Amendments to the Claims:

Claims 1-13 **(Cancelled)**

14. **(Previously presented)** A high combustion efficiency device for liquid fuel, comprising:

a hollow member made of electrically conductive material;

liquid filling the hollow member; and

tourmaline particles dispersed in the liquid;

wherein the liquid comprises an electrically conductive solution or electrically conductive gel containing carbon graphite particles.

15. **(Previously presented)** The high combustion efficiency device according to Claim 14, wherein the high combustion efficiency device is formed to be attachable to at least one of a fuel tank of liquid fuel and a fuel passage extending from the fuel tank to a combustion device of the liquid fuel.

16. **(Currently amended)** ~~The high combustion efficiency device according to Claim 31,~~ A high combustion efficiency device for liquid fuel, comprising:

a hollow member made of electrically conductive material;

liquid filling the hollow member; and

tourmaline particles dispersed in the liquid;

wherein the high efficiency combustion device is mounted while the hollow member is grounded; and

wherein the high combustion efficiency device is arranged to surround a fuel pipe extending from a fuel tank to a combustion device of the liquid fuel.

17. **(Previously presented)** The high combustion efficiency device according to Claim 14, wherein the high combustion efficiency device is arranged to surround a fuel pipe extending from a fuel tank to a combustion device of the liquid fuel.

18. **(Currently amended)** ~~The high combustion efficiency device according to Claim 31,~~ A high combustion efficiency device for liquid fuel, comprising:

a hollow member made of electrically conductive material;

liquid filling the hollow member; and

tourmaline particles dispersed in the liquid;

wherein the high efficiency combustion device is mounted while the hollow member is grounded; and

wherein a surface of the hollow member is covered by a far-infrared ray generating substance.

19. **(Previously presented)** The high combustion efficiency device according to Claim 18, wherein the far-infrared ray generating substance is hard alumite.

20. **(Previously presented)** The high combustion efficiency device according to Claim 18, wherein the far-infrared ray generating substance is provided as an outermost layer.

21. **(Previously presented)** The high combustion efficiency device according to Claim 14, wherein a surface of the hollow member is covered by a far-infrared ray generating substance.

22. **(Previously presented)** The high combustion efficiency device according to Claim 21, wherein the far-infrared ray generating substance is hard alumite.

23. **(Previously presented)** The high combustion efficiency device according to Claim 21, wherein the far-infrared ray generating substance is provided as an outermost layer.

24. **(Previously presented)** The high combustion efficiency device according to Claim 17, wherein a surface of the hollow member is covered by a far-infrared ray generating substance.

25. **(Previously presented)** The high combustion efficiency device according to Claim 24, wherein the far-infrared ray generating substance is hard alumite.

26. **(Previously presented)** The high combustion efficiency device according to Claim 24, wherein the far-infrared ray generating substance is provided as an outermost layer.

27. **(Previously presented)** The high combustion efficiency device according to Claim 31, further comprising attachment means attached to an inner wall surface of a fuel tank.

28. **(Previously presented)** The high combustion efficiency device according to Claim 14, further comprising attachment means attached to an inner wall surface of a fuel tank.

29. **(Currently amended)** ~~The high combustion efficiency device according to Claim 31, wherein~~ A high combustion efficiency device for liquid fuel, comprising:

a hollow member made of electrically conductive material;

liquid filling the hollow member; and

tourmaline particles dispersed in the liquid;

wherein the high efficiency combustion device is mounted while the hollow member is grounded;

wherein the hollow member and the liquid constitute a device body; and

wherein a float is provided which allows the device body to float in the fuel in a fuel tank.

30. **(Previously presented)** The high combustion efficiency device according to Claim 14, wherein

the hollow member and the liquid constitute a device body; and
a float is provided which allows the device body to float in the fuel in a fuel tank.

31. **(Currently amended)** A high combustion efficiency device for liquid fuel, comprising:

a hollow member made of electrically conductive material;

liquid filling the hollow member; and

tourmaline particles and carbon graphite particles dispersed in the liquid;

wherein the high efficiency combustion device is configured to be mounted to a fuel system member, in a manner so as to influence the liquid fuel, while the hollow member is grounded.

Claim 32 **(Cancelled)**

33. **(Previously presented)** The high combustion efficiency device according to Claim 14, wherein the high efficiency combustion device is mounted while the hollow member is grounded.

34. **(Previously presented)** The high combustion efficiency device according to Claim 17, wherein the high efficiency combustion device is mounted while the hollow member is grounded.

35. **(Previously presented)** The high combustion efficiency device according to Claim 24, wherein the high efficiency combustion device is mounted while the hollow member is grounded.

36. **(Previously presented)** The high combustion efficiency device according to Claim 31, wherein the high combustion efficiency device is formed to be attachable to at least one of a fuel tank of liquid fuel and a fuel passage extending from the fuel tank to a combustion device of the liquid fuel.

37. **(Currently amended)** ~~The high combustion efficiency device according to claim 31, further comprising~~ A high combustion efficiency device for liquid fuel, comprising:

a hollow member made of electrically conductive material;

liquid filling the hollow member; and

tourmaline particles dispersed in the liquid;

wherein the high efficiency combustion device is mounted while the hollow member is grounded;

wherein a permanent magnet is secured to the hollow member for attaching the hollow member to an inner wall surface of a fuel tank.

38. **(Previously presented)** The high combustion efficiency device according to claim 14, further comprising

a permanent magnet secured to the hollow member for attaching the hollow member to an inner wall surface of a fuel tank.

39. **(New)** The high combustion efficiency device according to Claim 31, wherein said high efficiency combustion device is configured to be mounted to a fuel system member, in a manner so as to influence the liquid fuel.

40. **(New)** The high combustion efficiency device according to Claim 14, wherein said high efficiency combustion device is configured to be mounted to a fuel system member, in a manner so as to influence the liquid fuel, while the hollow member is grounded.